PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

P5048P	C00	ent's file reference	FOR FURTHER ACTIO	See Prel	Notification of Transmittal of International liminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/IS 03/00023			International filing date (day/month/year) Priority date (day/month/year) 12.08.2002			
Internation A61K31		ent Classification (IPC) or b	oth national classification and IPe			
Applicant SVEINS	SON	Birkir				
1. Thi	s inter hority	national preliminary exar and is transmitted to the	nination report has been prep applicant according to Article	ared by 36.	y this International Preliminary Examining	
2. This	2. This REPORT consists of a total of 5 sheets, including this cover sheet.					
×	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).					
The		nexes consist of a total c			•	
		n contains indications re	lating to the following items:			
l 	⊠	Basis of the opinion				
11		Priority				
HI				inventi	ive step and industrial applicability	
V	 IV □ Lack of unity of invention V ☒ Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement 					
VI		Certain documents cite		•		
VII		Certain defects in the in	nternational application			
VIII			n the international application			
Date of sub	missio	n of the demand	Date	of compl	letion of this report	
11.03.20	04			2.2004		
Name and preliminary	mailing exami	address of the Internationa	d Autho	Authorized Officer		
European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465			Beed	k, M		
			·	one No	o. +49 89 2399-8473	

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International application No. PCT/IS 03/00023

I.	Basi	s of	the	rep	ort
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	cription, Pages					
	1-20)	as originally filed				
	Clai	ims, Numbers					
	10-	14	as originally filed				
	1-9		received on 22.11.2004 with letter of 22.11.2004				
	Dra	wings, Sheets					
	1/6-	6/6	as originally filed				
2.	With regard to the language, all the elements marked above were available or furnished to this Authority language in which the international application was filed, unless otherwise indicated under this item.						
	The	These elements were available or furnished to this Authority in the following language: , which is:					
		the language of a tra	anslation furnished for the purposes of the international search (under Rule 23.1(b)).				
		the language of publ	ication of the international application (under Rule 48.3(b)).				
-		the language of a tra Rule 55.2 and/or 55.3	anslation furnished for the purposes of international preliminary examination (under 3).				
3.	Witl inte	n regard to any nucle rnational preliminary e	eotide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:				
		contained in the inter	rnational application in written form.				
		filed together with the	e international application in computer readable form.				
		I furnished subsequently to this Authority in written form.					
		furnished subsequently to this Authority in computer readable form.					
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.					
		The statement that the listing has been furnitude.	he information recorded in computer readable form is identical to the written sequence ished.				
4.	The	amendments have re	esulted in the cancellation of:				
		the description,	pages:				
		the claims,	Nos.:				
		the drawings,	sheets:				

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5.		This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).						
		(Any replacement sheet contain report.)	ining s	uch amendn	nents must be referred to under item 1 and annexed to this			
6.	Add	litional observations, if necessa	ry:					
Ш.	Nor	n-establishment of opinion wi	th reg	ard to nove	lty, inventive step and industrial applicability			
1.	The obv	he questions whether the claimed invention appears to be novel, to involve an inventive step (to be non- bvious), or to be industrially applicable have not been examined in respect of:						
		☐ the entire international application,						
	\boxtimes	claims Nos. 1-5						
	because:							
	☒	the said international application, or the said claims Nos. 1-5 relate to the following subject matter which does not require an international preliminary examination (specify):						
see separate sheet								
		the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):						
		the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.						
		no international search report has been established for the said claims Nos.						
2. A meaningful international preliminary examination cannot or amino acid sequence listing to comply with the standard Instructions:			ary ex omply	nnot be carried out due to the failure of the nucleotide and ndard provided for in Annex C of the Administrative				
		the written form has not been furnished or does not comply with the Standard.						
		the computer readable form has not been furnished or does not comply with the Standard.						
۷.	Rea cita	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
1. Statement								
	Nov	velty (N)	Yes: No:	Claims Claims	1-8,12-14 9-11			
I	Inve	entive step (IS)	Yes: No:	Claims Claims	1-8,12-14 9-11			
	Indi	ustrial applicability (IA)	Yes: No:	Claims Claims	6-14			

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see separate sheet

- D1: NOVOTNY, FRANTISEK: "Psoriasis Treatment by heparin" ACTA UNIVERSITATIS CAROLINAE MEDICA, vol. 31, no. 3/4, 1985, pages 243-245, XP002274846
- D2: US-B-6 214 8161 (POLIVKA ZDEN EACUTE K ET AL) 10 April 2001 (2001-04-10)

SECTION III:

Claims 1 to 5 relate to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Article 34(4)(a)(I) PCT).

SECTION V:

- Document D2 already describes pharmaceutical compositions comprising a 1) CGRP antagonist (see the abstract, column 1, line 24, and the claims).
 - Therefore the subject-matter of claim 9 to 11 is not novel (Article 33 (2) PCT).
- The use of CGRP antagonists for the treatment of psoriasis is not obvious in view 2) of the documents cited in the Search report.
 - Therefore the subject-matter of claims 1 to 8 and 12 to 14 involves an inventive step.
- 3) For the assessment of the present claims 1 to 5 on the question whether they are industrially applicable, no unified criteria exist in the PCT Contracting States. The patentability can also be dependent upon the formulation of the claims. The EPO, for example, does not recognize as industrially applicable the subject-matter of claims to the use of a compound in medical treatment, but may allow, however, claims to a known compound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment.

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CLAIMS

- A method of treating, remedying or preventing psoriasis in a subject comprising administering to the subject a therapeutically effective dose of at least one CGRP antagonist compound in a pharmaceutically acceptable formulation.
- 2. The method according to claim 1, wherein the at least one CGRP antagonist compound is selected from the group consisting of 4-sulfinyl benzamide compounds, 3,4-dinitrobenzamide compounds, benzamidazolinyl piperadine compounds, anti-CGRP antibodles, CGRP derivatives including the peptide CGRP 8-37, tryptase active polypeptide, and the compound BIBN4096BS, and compund stabilising tryptace, including heparin.
- The method according to claim 1, wherein the CGRP antagonist compound is administered locally, such as topically, dermally, intradermally, or subcutaneously, or via dermal or subcutaneous infusion such as through microdialysis administration.
- The method according to claim 1, wherein the CGRP antagonist compound is administered orally, nasally, rectally, pulmonary, buccally or via subcutaneous, intravenous or intramuscular injection.
- 5. The method according to claim 1, wherein the CGRP antagonist compound is administered topically.
- The use of a CGRP antagonist compound for the manufacture of a medicament for treating, preventing or remedying psoriasis in a subject.
- 7. The use according to claim 6, wherein the compound is selected from the group comprising 4sulfinyl benzamide compounds, 3,4-dinitrobenzamide compounds, benzamidazolinyl piperadine compounds, anti-CGRP antibodies, CGRP derivatives including CGRP 8-37, tryptase, tryptaco- stabilizing compounds including heparin, and the compound BIBN4096BS. dl.
- 8. The use according to claim 6, wherein the medicament is administered topically.
- 9. A pharmaceutical composition for treatment of psoriasis comprising at least one active CGRP antagonist substance and at least one pharmaceutically acceptable excipient.